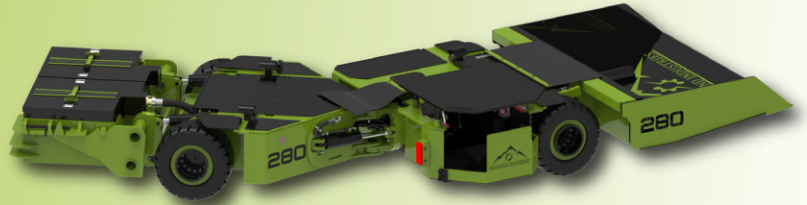




highland-ind.com

SINGLE TRAM BATTERY POWERED SCOOP



*280 Low to Mid seam applications
320 Mid to High seam applications*

Specifications:

Electrical:

Input Voltages:

- 128VDC OR 240VDC

Traction:

- AC VFD mine duty, 80 kW MSHA approved explosion proof
- 128VDC Q drive 55 kW MSHA approved explosion proof

(Both systems offer infinitely variable speed control through the complete speed range (NO STEPS))

Pump:

- AC VFD. 18 kW (continuous)
- DC 11 kW (continuous)

Lights:

- LED
- Halogen

(Both options available with colored direction and position lights)

Audible / Safety:

- Flashing and or rotating beacons
- Horns
- Direction sirens
- Cameras

Proximity Detection:

- Customer specified proximity detection can be married to either drive package to slow the vehicle, stop the vehicle, and or remove power from the vehicle.



Mechanical:

Traction:

- Full time 4 wheel drive with planetary differential increasing component longevity and overall steerability
- John Deere 1200 (280) or 1400 (320) series planetary gear axles
- Lube for life drive lines
- Traction reducer with integrated wet brake

Steering and Articulation:

- 40 degrees of turn either side
- High pressure welded steering cylinders
- Heavy duty ball bearing center sections
- Hardened steel pin
- Upper and lower spherical bearings

Hydraulic:

- Pump
- Proven two section gear type pump
- Optional high output variable displacement pump/gear pump
- High pressure welded steering, battery lift and bucket lift cylinders

Brakes:

- Spring applied hydraulic released wet multidisc park brake
- Hydraulic applied wet multidisc service brake

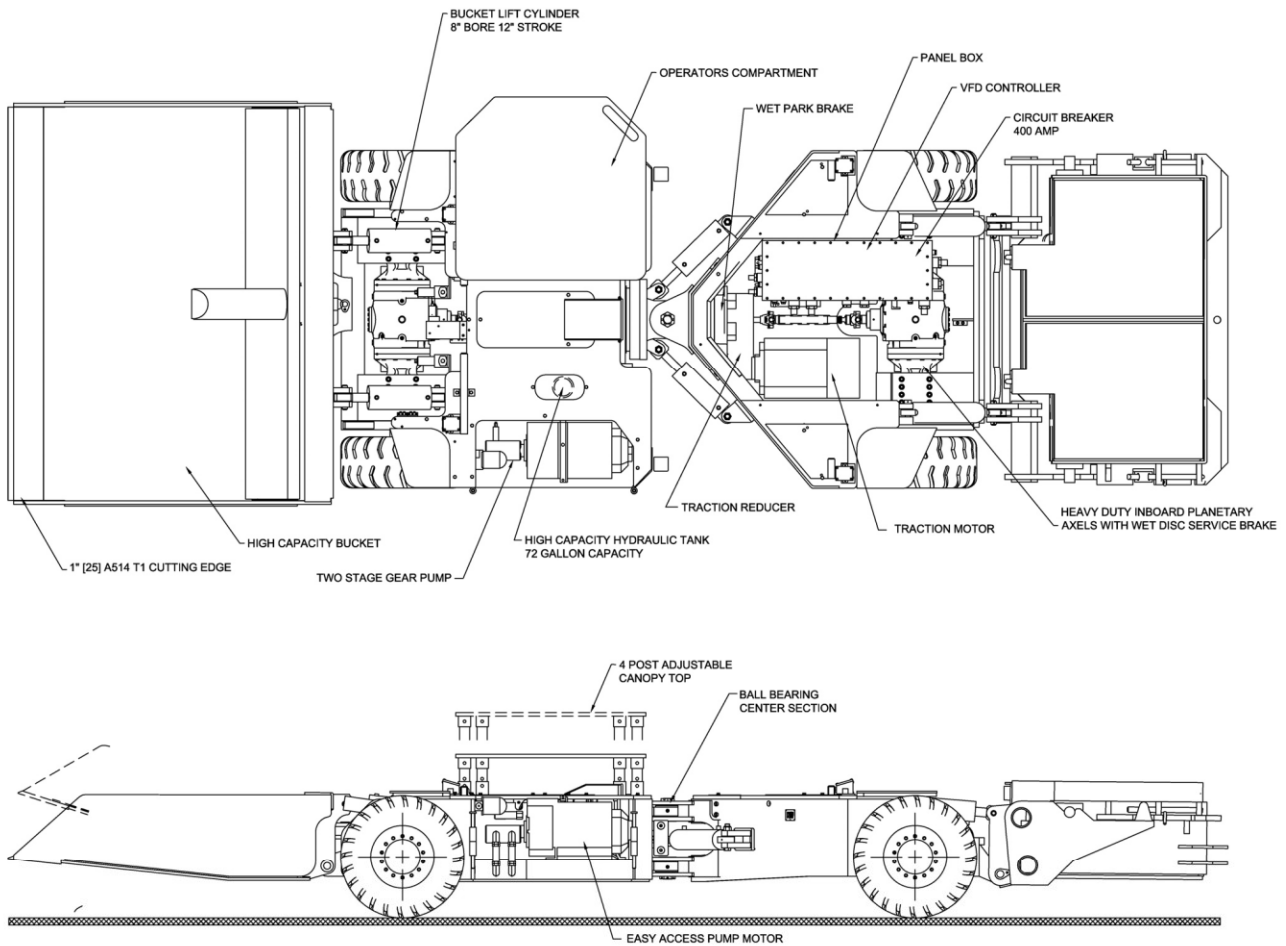
Chassis:

- Fabricate from structural grade steel with reinforcements in high stress areas with a 2 year warranty on the frame
- Designed to meet the high stress demands of the mining environment
- Custom designs customer specific options available
- Optional deck extension to provide more room and better visibility in lower seams



Highland offers the latest updates and custom modifications to meet your mining requirements.

PROUDLY SERVING THE ENERGY INDUSTRY'S EQUIPMENT NEEDS FOR OVER 39 YEARS



Dimensions

- | | |
|--------------------------|------------------------------------|
| • Overall Length | 28 ft. - 11 in. (Including Bucket) |
| • Machine Width | 9 ft. - 7 in. |
| • Frame Height | 25 in. |
| • Ground Clearance | 8 in. (35" Tires) |
| • Steering Angle | 80° Total |
| • Approx. Machine Weight | 43,000 lb. (Including Batteries) |
| • Maximum Payload | 61,000 lb. |
| • Maximum Breakout Load | 32,000 lb. |
| • Bucket Capacity | 140 cu ft |

Specifications

- | | |
|---------------|--------------------------------|
| • Tram Motors | 80 kW AC / 55 kW DC |
| • Pump Motor | 36 kW AC / 18 kW DC |
| • Battery | 240 Volt or 128 Volt Lead Acid |
| | 6 Hour Run Time, 6 Hour Charge |

Tire Options

- | | |
|------------------|-------------------------------------|
| • 35x15-15 Tires | (Customer Specified Brand and Fill) |
| • 38x16-15 Tires | (Customer Specified Brand and Fill) |



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